



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

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Calcutta, the 7th March 1987

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Calcutta-700 017.

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## REGISTRATION OF PATENT AGENTS

The following person has been registered as patent Agent :—

Shri M. Venugopal Menon,  
959, A. Laxmanaswamy Road,  
K. K. Nagar (West)  
Madras-600 078.

APPLICATION FOR PATENTS FILED AT  
THE HEAD OFFICE

214, ACHARYA JAGADISH BOSE ROAD  
CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 29th January 1987

90/Cal/87. Rostovsky Institut Inzhenerov Zheleznodorozhno-Transportna. Method and device for speed control of railway transport facilities.

91/Cal/87. Indian Institute of Technology, Kharagpur, And A. Chakraverty and D. S. K. Devadattam. A rice bran stabilizer.

The 30th January 1987

92/Cal/87. Satya Ranjan Das. Device for preventing hair falling and for stimulating growth of hair.

93/Cal/87. Siemens Aktiengesellschaft. Contact pieces for vacuum switchgear, and method for the manufacture thereof.

94/Cal/87. Trutzschler GMBH & CO. KG. Improved mechanism of a bale-opener for fiber bales.

95/Cal/87. Combustion Engineering, INC. Pulverized solid control system.

96/Cal/87. Combustion Engineering, INC. An in situ particle size measuring device.

97/Cal/87. Hoechst Aktiengesellschaft. Process for preparing water-soluble monoazo compounds. [Divisional dated 5th December, 1983].

The 3rd February 1987

98/Cal/87. William Glenn Riles. Offshore platform construction including preinstallation of pilings.

99/Cal/87. Foxtech PTY, LTD. A steam sterilizer.

100/Cal/87. Vsesojuzny Gosudarstvenny Institut Nauchno-Issledovatel'skikh I Proektnykh Rabot Ogneupornoj Promyshlennosti. Method for torch gunning of a metallurgical unit.

101/Cal/87. Beloit Corporation. Control valve for a steam box.

102/Cal/87. Siemens Aktiengesellschaft. An assembly in or for use in an electrical switching device.

103/Cal/87. Thyssen Stahl AG. A continuously cast steel with good hardenability.

104/Cal/87. Tsudakoma Corporation. Positive cam shedding device for use with looms.

105/Cal/87. (1) Hubert Eirich, (2) Paul Eirich, (3) Walter Eirich. A method of and an apparatus for the treatment of power station residues.

APPLICATIONS FOR PATENTS FILED IN THE  
PATENT OFFICE BRANCH

AT TODI ESTATES, 14RD FLOOR  
SUN MILL COMPOUND  
LOWER PAREL (WEST), BOMBAY-13

The 12th December 1986

342/Bom/86. B. M. Gattani. Invention in relation to the method of manufacture of dehydrated chappatis and rehydrating the same.

The 16th December 1986

343/Bom/86. A. M. Solanki. An Electronic Register.

344/Bom/86. Jyoti Limited. Relays and other electronic equipment having a build in fail-safe and checking circuit.

345/Bom/86. L. Sannabhadit. A circuit for converting direct current to alternating current.

The 19th December 1986

346/Bom/86. P. K. Kocharekar. Automatic circumspectus viewer.

The 22nd December 1986

347/Bom/86. Haffkine Institute for Training, Research & Testing. The Synthesis of N-Decyl-3-substituted amino succinamides.

348/Bom/86. Haffkine Institute for Training, Research & Testing. The Synthesis of N-Nonyl-3-substituted amino succinamides.

349/Bom/86. Haffkine Institute for Training, Research & Testing. The Synthesis of N-Octyl-3-substituted amino succinamides.

350/Bom/86. Haffkine Institute for Training, Research & Testing. The Synthesis of N-Heptyl-3-substituted amino succinamides.

351/Bom/86. Haffkine Institute for Training, Research & Testing. The Synthesis of N-Hexyl-3-substituted amino succinamides.

352/Bom/86. Haffkine Institute for Training, Research & Testing. The Synthesis of N-Pentyl-3-substituted amino succinamides.

353/Bom/86. Haffkine Institute for Training, Research & Testing. The Synthesis of N-Butyl-3-substituted amino succinamides.

354/Bom/86. Haffkine Institute for Training, Research & Testing. The Synthesis of N-Propyl-3-substituted amino succinamides.

355/Bom/86. Haffkine Institute for Training, Research & Testing. The Synthesis of N-Ethyl-3-substituted amino succinamides.

356/Bom/86. Haffkine Institute for Training, Research & Testing. The Synthesis of N-Methyl-3-substituted amino succinamides.

357/Bom/86. Haffkine Institute for Training, Research & Testing. The Synthesis of N-Alkyl maleimides, amino succinamides.

357/Bom/86. Balcke-Durr Aktiengesellschaft. Heat Exchanger.

The 23rd December 1986

359/Bom/86. Sita Rani. An improved fluid meter of the pressure differential type

360/Bom/86. P. P. Bhat. An improved revolving chair.

The 24th December 1986

- 361/Bom/86. Marathe Engineering Industries. Solid state contactor with phase matching and 90° controlled firing.

The 26th December 1986

- 362/Bom/86. Jyoti Limited. Polyphase induction motor.

The 29th December 1986

- 363/Bom/86. Hindustan Lever Ltd. Soap Encapsulated bleach particles.

The 30th December 1986

- 364/Bom/86. A. N. Namjoshi, C. G. Patel, M. B. Patel & S. G. Karandikar. (M/s. Navayug Industrials). A continuous super rapid turbo-stator rotor shearing and dispersing machine which is an apparatus for continuous dispersion of powder/powders with different particles sizes in a liquid/liquids at variable temperatures.

- 365/Bom/86. Hindustan Lever Ltd. A device for measuring composition/concentration of a medium.

APPLICATION FOR PATENTS FILING AT FOR  
PATENT OFFICE BRANCH, MADRAS  
61, WALLAJAH ROAD, MADRAS-600 002

The 12th January 1987

- 14/Mas/87. Mobil Oil Corporation, Ne Xylene Isomerization Process to Exhaustively Convert Ethylbenzene and Non-Aromatics.

The 13th January 1987

- 15/Mas/87. SMS Schloemann—Siemage Aktiengesellschaft, Dummy bar head for a steel strip casting Plant.

- 16/Mas/87. Schweissindustrie Oerlikon Buhrle AG., "Process for the Production of filling strip electrodes and filling strip electrode produced by this process".

- 17/Mas/87. Danby Developments INC., "Vacuum Insulated Shipping Container and Method".

The 15th January 1987

- 18/Mas/87. Lucas Industries Public Limited Company, "A Vented Hydraulic Brake System".

- 19/Mas/87. Lucas Industries Public Limited Company, "Floating Caliper Spot Type Disc Brakes".

- 20/Mas/87. Lucas Industries Public Limited Company. "An Apparatus for separating cast Objects".

- 21/Mas/87. Avondale Industries, INC., Short Stroke Press with Automated feed Mechanism.

- 22/Mas/87. Amsted Industries Incorporated, Grinding Wheel Advancing Apparatus.

- 23/Mas/87. Institut Francais Du Petrole, "Process and Device for Installing seismic sensors inside a Petroleum Production Well".

The 16th January 1987

- 24/Mas/87. Advanced Composite Components Limited, Moulding Fibre Reinforced Composite Armour. (January 17th, 1986, U.K.).

- 25/Mas/87. Braunschweigische Maschinenbauanstalt AG., Continuously Operating Centrifugal for mashing, and centrifuging of sugar Masseccuite.

- 26/Mas/87. Braunschweigische Maschinenbauanstalt AG., "Continuously Operating Sugar Centrifugal".

## ALTERATION OF DATE

Ante dated to 17th December, 1979.

159003.  
(458/Cal/83)

Ante dated to 28th Novembr, 1979.

159004.  
(463/Cal/83)

Ante dated to 28th November, 1980.

159005.  
(464/Cal/83)

Ante dated to 28th November, 1980.

159008.  
(527/Cal/83)

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CLASS : 42A<sub>1</sub> & 5.

158989

Int. Cl. : A24c 5/00.

"A CIGARETTE-MAKING MACHINE WITH AN AUXILLIARY TOBACCO SUPPLY UNIT".

Applicant : G. D. SOCIETA' PER AZIONI, an Italian company of Via Pomponia, 10, 40100 Bologna, Italy.

Inventor : ENZO SERAGNOLI.

Application for Patent No. 622/Del/1982 filed on 16th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A cigarette-making machine with an auxilliary tobacco supply unit, including a descending chimney for supplying shredded tobacco, communicating above with a main tobacco feed device, the said descending chimney having an intermediate aperture communicating with the output of the said auxilliary unit, characterised by the fact that the said auxilliary unit includes a conveyor for the tobacco and drive means connected to the said conveyor to displace an output and thereof with an oscillatory movement across the said aperture in a direction substantially transverse the axis of the said descending chimney.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 130 G, 130 I.

158990

Int. Cl. C22b, 19/26, 15/10, 13/04.

"IMPROVEMENTS IN OR RELATING TO A PROCESS FOR THE EXTRACTION OF COPPER, LEAD AND ZINC METAL VALUES FROM COMPLEX SULPHIDE ORES/CONCENTRATES".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : KATRAGODA SARVESWARA RAO, SHASHI ANAND, KARANAM SRINIVASA RAO, SARAT CHANDRA DAS, TODENPU SOBBIAH AND RADHANATH PRASAD DAS.

Application for Patent No. 667/Del/1982 filed on 1st September, 1982.

Complete specification left on 29th November, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 6 Claims

A process for the extraction of copper; zinc and lead metal values from complex sulphide ores/concentrates comprising the steps of (i) subjecting ground ore/concentrate to oxidative ammonical leaching in an autoclave, to obtain a leach liquor containing copper, zinc and cadmium and a leach residue containing lead, (ii) subjecting the leach liquor from step (i) to solvent extraction with a solvent admixture of  $RR^1-CH-CH(OH)-C\equiv(NOH)-CHR^1R$  and  $C_6H_5(C_6H_{10})_2.OH$ ,  $C-R$



where R is butyl and  $R^1$  is an ethyl radical to obtain a solvent containing copper, (iii) treating the raffinate from step (ii) to further solvent extraction with a solvent consisting of a diketone of formula  $C_{10}H_{22}O_2$  and mol. wt. 246 to obtain a zinc extract thereof, (iv) subjecting the leach residue from step (i) to further leaching with ferric chloride solution to obtain a leach extract of lead, (v) stripping the desired metal value of Cu, zinc and lead from the solvent extracts of steps (ii), (iii) by acid treatment and leach extract of step (iv) by brine treatment respectively and further (vi) subjecting the metal values thus obtained to process of electrowinning by methods known per se.

Provisional Specn. 6 pages.

Compl. Specn. 17 pages.

Drg. 1 sheet.

CLASS : 168 H.

158991

Int. Cl. : GO 8b-5/22.

"SEMAPHORE INDICATOR".

Applicant : YOGENDRA NATH BHARGAVA, an Indian National residing at D-980, New Friends Colony, New Delhi-110 014, India.

Inventor : YOGENDRA NATH BHARGAVA.

Application for Patent No. 841/Del/1982 filed on 16th November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

## 5 Claims

A semaphore indicator comprising at least two rows of electrical display elements disposed in an intersecting relationship to each other, each of the said rows consisting of light emitting diodes, the diodes in each row being connected in series and the diode at the intersection of the said rows being common to all the said rows.

Provisional Specn. 05 pages.

Compl. Specn. 06 pages.

Drg. 1 sheet.

CLASS : 23 H B.

158992

Int. Cl. : B 65 d 5/00.

"A CARTON FOR PACKING OF PRODUCTS".

Applicant : INDIRA DEVII VERMA, W/o Shri Rajendra Kumar, C/o. Shri Manik Chand Jai Kishan Gold Smith, P. O. Sasni, Aligarh, U. P. an Indian national.

Inventor : INDIRA DEVII VERMA.

Application for Patent No. 855/Del/1982 filed on 23rd November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

## 6 Claims

A carton for packing of products which have a geometrical shape other than that of a rectangle or square comprising a five sided member, each of said sides having its corresponding flap at either end characterised in that two of said sides are minor sides in comparison to the remaining three sides, the apex of the two minor sides being disposed off centre where the first of the major sides has a length of A cms. which is selected from any of :—

- (i) the diameter of a circular shaped product;
- (ii) the length of the major axis of the oval shaped product
- (iii) the length of the minor axis of an elliptical shaped product;

the said second side has a length of B cms. which said length is of a value 10% less than the length of the first side of A cms., the third side of the carton having a length of 0.625A cms., the length of the fourth and fifth sides each having lengths respectively equal to 0.5A cms. and B-0.125A cms. -

Provisional Specn. 4 pages.

Compl. Specn. 11 pages.

Drgs. 3 sheets.

CLASS : 70 A, 70 C.

158993

Int. Cl. : B 23 p 1/04.

"AN APPARATUS FOR PRODUCING FOILS FOR USE IN ELECTRON MICROSCOPES".

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, of 18-20 Kasturba Gandhi Marg, New Delhi-110 001, India, an Indian company.

Inventor : GANAPATAY VENKATARAMAN.

Application for Patent No. 872/Del/1982 filed on 25th November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

## 7 Claims

An apparatus for preparing thin foils of a metal or alloy for test under a transmission electron microscope comprising a housing in two parts having co-axial passages, the upper passage housing a cathode gun and the lower passage housing a double anode assembly, said double anode assembly comprising an outer hollow cylindrical anode and an inner coaxial hollow cylindrical anode insulated from each other, means provided with said cathode for forcing a stream of an acidic electrolyte through a passage in the cathode gun for electropolishing a disc of the metal or alloy to be tested which is supported by the upper end of the outer anode at the junction of the two passages, means for connecting a flange on the cathode gun to the negative terminal of a variable direct current source, means for connecting the outer anode and the inner electrode to the positive terminal of the source, means with said cathode for re-circulating the electrolyte after acting on the said disc.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 32 E.

158994

Int. Cl. : C 08 c-5/00; C 08 d-3/10.

"A METHOD OF MAKING EPOXIDIZED *cis* 1, 4-POLYISOPRENE RUBBER".

Applicant(s) : THE MALAYSIAN RUBBER PRODUCERS' RESEARCH ASSOCIATION, a British body corporate of Brickendonbury, Hertford SG13 8 NL, England.

Inventor(s) : IAN RICHARD GELLING.

Application for Patent No. 900/Del/1982 filed on 9th December, 1982.

Convention Application No. 8138286 filed on 18th December, 1981 (Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

## 11 Claims

A method of making epoxidized *cis* 1, 4, polyisoprene rubber, which method comprises treating a natural or synthetic *cis* 1, 4-polyisoprene latex, which has been stabilized against coagulation with a non-ionic surfactant, with hydrogen peroxide and formic or acetic acid to form *in situ* the corresponding per-acid, whereby the rubber is epoxidized to a predetermined extent and subsequently recovering the epoxidized rubber by heating the latex to a temperature above the cloud point of the non-ionic surfactant to coagulate the rubber, before and/or after coagulation adding base to the rubber and subsequently washing the coagulum to remove substantially all residual free acid, residual peroxide, peroxide-modified non-rubbers and surfactant from the rubber.

Compl. pecn. 16 pages.

Drg. 1 sheet.

CLASS : 37 A, D, 80 H.

158995

Int. Cl. : B 01 d 17/00, 19/00, 21/00.

"PROCESS FOR THE SELECTIVE SEPARATION OF AT LEAST ONE PHASE OF A FLUID FOSSIL FUEL COMPOSED OF A PLURALITY OF PHASES OF DIFFERENT DENSITIES".

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC, a British company of Imperial Chemical House, Millbank, London, SW1P 3JF, England.

Inventor : COLIN RAMSHAW.

Application for Patent No. 907/Del/1982 filed on 13th December, 1982.

Convention date on 18-12-1981/81 38327 (U.K.) and 26-8-1982/8224531 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

## 9 Claims

A process for the selective separation of at least one phase of a fluid fossil fuel composed of a plurality of phases of different densities at least one of which is a liquid phase characterised in that depending on its composition said fluid fossil fuel is charged to a predetermined point within the radius of rotation of a rotary zone where it is subjected at a pressure of substantially atmospheric pressure to centrifugal force whereby a more dense phase of said fluid fossil fuel moves generally outwards with respect to the axis of rotation and a less dense phase moves generally inwards with respect to said axis of rotation, and collecting in any known way at least one of said separated phases.

Compl. Specn. 17 pages.

Drgs. 3 sheets.

CLASS : 83 A 2.

158996

Int. Cl. : A231, 1/33.

"A METHOD AND A SYSTEM FOR PEELING CRUSTACEANS"

Applicant : OTTO DITLEV HANSEN of Ostre Skovvej 21, DK-8240 Risskov, Denmark and BENT KRONBORG NIELSEN of Falkevej 45, DK-9352 Dybvad, Denmark.

Inventor : OTTO DITLEV HANSEN AND BENT KRONBORG NIELSEN.

Application for Patent No. 922/Del/1982 filed on 17th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

## 12 Claims

A method of removing the shells from crustaceans, whereby the crustaceans are subjected to a pressure difference treatment for loosening the shells from the meat bodies of the crustaceans and to a mechanical treatment for effectively separating the loosened shell portions from the body portions of the crustaceans, characterised in that the crustaceans are exposed to a pressure drop from a pressure level, at which the body liquid adjacent the surface of the bodies and just inside the shells exists in a liquid phase, to a lower pressure level, which is low enough to cause a boiling up of the said body liquid just inside the shells whereafter the crustaceans are subjected to said mechanical treatment by being caused to be rapidly moved against and into a brake liquid serving to frictionally engage the outside of the moved crustaceans and thus to peel or draw off the already loosened shell portions thereof.

(Complete specification 18 pages). Drawing 3 sheets.

CLASS : 33 D, 130 F.

158997

Int. Cl. : B22d 37/00, 41/00.

"AN IMPROVED MOVABLE PLATE ASSEMBLY FOR A SLIDING GATE VALVE FOR TEEMING MOLTEN METAL"

Applicants : USS ENGINEERING AND CONSULTANTS, INC., a corporation of the State of Delaware, United States of America, doing business at 600 Grant Street, Pittsburgh, State of Pennsylvania, United States of America.

Inventor : ROMANO CAPPELLI.

Application for Patent No. 925/Del/1982 filed on 20th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

## 5 Claims

An improved movable plate assembly for use in sliding gate valves for teeming molten metal including an elongated refractory plate member having a sliding surface and a parallelly disposed under-surface, a teeming opening extending through the plate and a nozzle extension depending from the plate undersurface, said nozzle extension including a central opening in axial alignment with said teeming opening, characterised in that said elongated plate member is a composite structure formed by first and second inter-fitting refractory components, the first refractory component containing said teeming opening and attaching said nozzle extension, being inset in said second refractory component with the upper surfaces of the two refractory components being in coplanar relation, said first component at its upper end having a lateral dimension greater than that of said nozzle extension and a thickness coincident with that of said second component.

Compl. Specn. 9 pages.

Drgs. 2 sheets.

CLASS : 40 H.

158998

Int. Cl. : B 01d 47/08.

**"A METHOD FOR RECLAIMING UREA FROM WASTE GASES FROM UREA PLANT".**

Applicant : NORSK HYDRO A.S., a Norwegian Company of Bygdø alle 2, OSLO 2, Norway.

Inventor : HAROLD STOREN.

Application for Patent No. 944/Del/82 filed on 30th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

**4 Claims**

A method for reclaiming urea from waste gases from urea plant which comprises treating said waste gases in a scrubber with an aqueous urea solution, circulating said aqueous solution in the scrubber for the removal of ammonia and other impurities such as herein described contained in said waste gases and returning said aqueous solution to the process for reclaiming urea, characterised in that formaldehyde is added to said aqueous solution before it is brought into contact with said waste gases and in that the addition of formaldehyde is regulated to maintaining its pH at Ph 6 to 8.5.

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 195-D.

158999

Int. Cl. : G 05 d 7/00,  
F 16 k 17/36.

**TEMPERATURE ACTUATED AIR FLOW AND GAS SAMPLER.**

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. THOMAS LEE BOHL.

Application No. 365/Cal/83 filed March 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**8 Claims**

A temperature actuated fluid flow control device, comprising a fluid inlet, an exhaust line for the fluid connected to said fluid inlet, a reduced flow area section in the connection of said exhaust line to said fluid inlet an aspirating fluid connection line extending into the connection adjacent said reduced area for supplying aspirating fluid to induce flow of fluid into said inlet and out said exhaust line, said aspirator fluid connecting line having a throughflow chamber with an opening for the passage of the aspirating gas, characterised in that a bimetallic valve plate is disposed in said chamber and overlying the opening and being flexible and responsive to temperature change so that in a first flexed position it closes the opening to stop the flow of aspirating gas and movable to another flexed position by temperature change to open the opening.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 195-D.

159000

Int. Cl. : F 16 k 3/00.

**SLIDING GATE VALVES AND COMPONENTS THEREOF.**

Applicant : FLOGATES LIMITED, OF SANDIRON HOUSE, BEAUCHIEF, SHEFFIELD, S7 2RA, ENGLAND.

Inventor : 1. ANTHONY THROWER.

Application No. 373/Cal/83 filed March 30, 1983.

Convention date 1st April, 1982 (82 09663) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**16 Claims**

A valve plate for a sliding gate valve used in the pouring of molten metals, comprising an apertured metal tray containing an orificed refractory plate member upon a layer of concrete, the plate member being a composite structure formed by coplanar first and second refractory portions, the first being inset in a receiving opening therefor in the second portion and the first portion, which is an elongated or circularly-shaped element, having an orifice juxtaposed with the tray porture, the tray further having one or more holes in its base beneath the first portion which provide access for tooling to exert an upward thrust on the first portion for detaching it from the tray.

Compl. Specn. 20 pages.

Drg. 1 sheet.

CLASS : 155-F<sub>1</sub>+.

Int. Cl. B 32 b 21/00.

**DECORATIVE LAMINATE.**

Applicant : FORMICA CORPORATION, OF BERDAN AVENUE, WAYNE, STATE OF NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : 1. RICHARD FREDERICK JAISLE, 2. TERRENCE PAUL DRESS.

Application No. 412/Cal/83 filed April 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**12 Claims**

A heat and pressure consolidated decorative laminate of from about 0.2 to about 0.8 mm in thickness, consisting essentially of,

(a) 1 or more kraft paper sheets impregnated with a thermoset blend of (I) a phenol/formaldehyde resin, (II) a cross-linked acrylic resin and (III) an optional melamine/formaldehyde resin,

(b) a decor sheet impregnated with (A) a thermoset first application of a blend of (IV) a melamine/formaldehyde resin and (V) a cross-linked acrylic resin and (B) a thermoset second application of a blend of (VI) a melamine/formaldehyde resin and (VII) abrasive particles and

(c) optionally, a reinforcing member.

Compl. Specn. 28 pages.

Drg. Nil.

CLASS : 85-E.

159002

Int. Cl. : C 10 b 25/02.

**IMPROVEMENTS IN AND RELATING TO COKE OVEN DOORS.**

Applicant : FIRMA CARL STILL GMBH & CO. KG., OF 4350 RECKLINGHAUSEN, POSTFACH 101851, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. WARNER ABENDROTH.

Application No. 419/Cal/83 filed April 11, 1983.

Addition to No. 860/Cal/82 dated 26th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 15 Claims

A coke oven door comprising a sealing strip having two limbs one of the limbs for lying against an edge portion of the door and the other limb for engaging a frame for the door and clamping means for holding the said one limb against the edge portion of the door, one part of the clamping means being adjustably movable towards the frame to vary the outward position of the said other limb relative to the coke oven facing side of the door, wherein the clamping means comprises bolt(s) holding it against the door and is constructed in such a manner that the said one part of it can be moved towards the frame without loosening the bolt(s) and without recoiling movement.

Compl. Specn. 17 pages.

Drgs. 3 sheets.

CLASS : 34-A; 172-D &amp; ; 172-F.

159003

Int. Cl. : D 01 d 1/00.

## HOLLOW SPINNERS FOR THE FIBERIZATION OF THERMOPLASTIC MATERIALS.

Applicant : "SPAFL-SOCIETE ANONYME DE PARTICIPATIONS FINANCIERES ET INDUSTRIELLES" (FORMERLY SAINT-GOBAIN INDUSTRIES) OF 62 BOULEVARD VICTOR HUGO, NEUILLY SUR SEINE, FRANCE.

Inventors : 1. JEAN ANTOINE BATTIGELLI, 2. IGOR FEZENKO, 3. FRANCOIS BOUQUET, 4. JEAN-JACQUES MASSOL.

Application No. 458/Cal/83 filed April 20, 1983.

Division of Application No. 1316/Cal/79 dated 17th December, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A hollow spinner for the fiberization of thermoplastic material such as glass, said spinner having a peripheral wall with a plurality of rows of orifices for centrifugal projection of streams of molten material characterised in that the spinner has a peripheral wall of thickness towards the lower edge portion thereof which is greater than thickness in a region above the lower edge portion when the spinner is mounted vertically.

Compl. Specn. 47 pages.

Drgs. 5 sheets.

CLASS : 24-A, E, F.

159004

Int. Cl. : B 62 1 3/00.

## ENERGY SAVING AND RETRIEVING BRAKE DEVICE.

Applicant & Inventor : BIMAN KUMAR PATHAK, 43/G VIDYATAN SARANI, CALCUTTA-35, WEST BENGAL, INDIA.

Application No. 463/Cal/83 filed April 21, 1983.

Division of Application No. 1146/Cal/79 dated 2nd November, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

An energy saving and retrieving brake device for bicycle, cycle rickshaws, motor cycles, scooters, mopeds and like vehicle comprising an externally fluted member keyed to the hub of a wheel, a pair of toothed wheels having on their inner periphery teeth corresponding to the flutes or teeth on the fluted member and spaced apart by a torsion spring ends

of which are secured to the toothed wheels, a lever disposed in a slot in the hub and the fluted member and adapted to push the toothed wheels one away from other, when pulled or pushed by a wire secured to it and a brake operating handle, a disc member integral with or rigidly secured to the hub and having a brake lining secured to it, a cover for the hub and two ratchet wheels fixed to the hub cover on opposite sides thereof and adapted to be meshed with teeth formed on the outer periphery of the toothed wheels when the said wheels are pushed to one side or the other by the lever through a spacer member, the springs being adapted to be twisted or wound when one of the toothed wheels is engaged with the ratchet wheel or the hub cover to store the kinetic energy of the vehicle and to retransmit the stored energy to the vehicle when the other toothed wheel is engaged with the other ratchet wheel on the hub cover.

Compl. Specn. 7 pages.

Drgs. 2 sheets.

CLASS : 24-A, E &amp; F.

159005

Int. Cl. : F 61 d 61/00.

## DEVICE FOR BRAKING ROTARY SHAFTS, AXLES AND THE LIKE AND RETRIEVING THE BRAKING ENERGY.

Applicant & Inventor : BIMAN KUMAR PATHAK, 43/G VIDYATAN SARANI, CALCUTTA-35, WEST BENGAL, INDIA.

Application No. 464/Cal/83 filed April 21, 1983.

Division of Application No. 1146/Cal/79 dated 2nd November, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A braking and braking energy retrieving device for rotary shafts axles and the like comprising a pair of spaced wheels rigidly mounted on the shaft, axle or the like, a ratchet wheel provided on the inner face of each wheel, a lining of a friction material on the outerface of each ratchet wheel, a bobbing rotatably and slidably mounted on the shaft axle or the like adjacent each said wheel, a torsion spring between the bobbins and surrounding the shaft, axle or the like and having its ends rigidly fixed to the bobbins a further ratchet wheel provided on each bobbin and movable relative to the bobbin, a helical spring for holding each of the further ratchet wheels in position and a hydraulic pneumatic or mechanically operable ram for actuating the lever of each of the further ratchet wheels and moving one or the other bobbin towards the adjacent wheel for the engagement of the friction linings on the either side thereby causing absorption of energy of the rotating wheel by compression and twisting of the said torsion springs or the release of the energy stored in the spring to the adjacent wheel.

Compl. Specn. 10 pages.

CLASS : 63-I.

159006

Int. Cl. : H 01 v 1/00.

## IMPROVED THERMOELECTRIC DEVICE AND METHOD OF MAKING SAME.

Applicant : ENERGY CONVERSION DEVICES, INC., OF 1675 WEST MAPLE ROAD, TROY, MI 48064, UNITED STATES OF AMERICA.

Inventor : 1. DER-JEOU CHOU.

Application No. 477/Cal/83 filed April 22, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 42 Claims

A thermoelectric device comprising :

at least two thermoelectric elements;

coupling means for coupling said elements electrically in series and thermally in parallel; and

absorbing means for absorbing the thermal expansion of said thermoelectric elements and said coupling means when a temperature differential is applied across said device.

Compl. Specn. 43 pages.

Drgs. 3 sheets.

CLASS : 166-A.

159007

Int. Cl. : B 64 c, 1/00.

**METHOD FOR FORMING A MULTIPLE LAYER, SELF-SUPPORTING ENVELOPE STRUCTURE, PARTICULARLY A BOAT HULL.**

Applicant & Inventor : MR. ALBERT PELEGER, WACHTERSTRABE 19, D-8170 BAD TOLZ, WEST GERMANY.

Application No. 490/Cal/83 filed April 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A method for forming a multiple-layer, self-supporting envelope structure, particularly of a multiple-layer boat hull shell structure with the aid of a mould skeleton defining the desired three-dimensional shape of the envelope structure, wherein profile members of identical cross-sectional shape are applied to said mould skeleton and locally affixed thereto in an interdigitating arrangement and are bonded to each other by means of a thermosetting filler material partially penetrating therebetween, and wherein a fibre-reinforced plastics laminate is applied to the thus formed surfaces and bonded thereto, characterized in that the profile members are selected to have a substantially double-T-shaped cross-section and are arranged in such a manner that the cross-sectional shapes of adjacent profile members are rotated about an angle of substantially 90° relative to each other.

Compl. Specn. 15 pages.

Drgs. 3 sheets.

CLASS : 24-A, E & F.

159008

Int. Cl. : F 16 d 61/00.

**BRAKING DEVICE FOR VEHICLES, WITH MEANS FOR ENERGY RETRIEVAL AND UTILIZATION.**

Applicant & Inventor : BIMAN KUMAR PATHAK, 43/G, VIDYAYATAN SARANI, CALCUTTA-35, WEST BENGAL, INDIA.

Application No. 527/Cal/83 filed May 2, 1983.

Division of Application No. 1146/Cal/79 dated 2nd November, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A braking and braking energy retrieving and reutilizing device for vehicles comprising a hollow cylindrical drum mounted on the axle of a vehicle and having a lining of friction material on its inner peripheral surface, two arcuate shoes on each of the opposite sides of the drum pivoted at their adjacent ends on the inner face of a disc covering the said drum, at least one potential energy cell including a cylindrical casing, coaxial shaft having a

middle portion of non-circular cross section and cylindrical ends rotatably supported in two arcuate shoes on opposite sides, a torsion spring surrounding the said shaft and having one end fixed to the said casing and the other end to a washer having a non-circular and free to slide on the portion of the shaft having non-circular cross section, a pinion fixed to or integral with the said casing and engaging a sun wheel on the wheel axle, a clutch between the axle and a ratchet or free wheel device and means for expanding the shoes so as to bring the cylindrical casings of the potential energy cells against the lining of friction material of the drum on actuation of a brake lever connected to the said means.

Compl. Specn. 9 pages.

Drgs. 4 sheets.

CLASS : 97-F.

159009

Int. Cl. : F 27 b 3/18; H 05 b 7/00.

## APPARATUS FOR CHARGING FURNACES

Applicant : ELKEM A/S, OF MIDDELTHUNNS QATE 27, OSLO 3, NORWAY.

Inventor : HARALD KROGSRUD.

Application No. 528/Cal/83 filed May 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

An apparatus suitable for charging a furnace in particular an electrothermic smelting furnace having at least one electrode, which apparatus comprises and at least partially annular chamber having a bottom and substantially concentric inner and outer side walls and means for charging the annular chamber; the bottom and the side walls being rotatable relative to the or each electrode, and the bottom having at least one closable opening to enable charge to pass from the annular chamber to the furnace, which is situated below the charging apparatus.

Compl. Specn. 14 pages.

Drgs. 3 sheets.

CLASS : 49 B and 99 A.

159010

Int. Cl. : A 47 j 27/50, 39/00.

**"METHOD OF MAKING AN IMPROVED COOKING UTENSIL AND THE COOKING UTENSIL THEREOF."**

Applicant : KIDDE CONSUMER DURABLES CORP. of 1500 Bassett Avenue Bronx, New York 10461, U.S.A., a Delaware corporation.

Inventor : AL S. RUMMELSBURG.

Application for Patent No. 91/Del/83 filed on 15th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent office Branch, New Delhi-110 005.

## 15 Claims

An improved cooking utensil comprising a stainless steel utensil having a bottom wall connected to an upstanding side wall by curved portion, an aluminium disk metallurgically bonded directly to said bottom wall and the curved portion with a serrated key tape interface, a central portion of said disk being thicker than the thickness of said utensil walls, said disk being thinner at its periphery, the thinned periphery of said disk overlying and terminating where the side wall joins said curved portion.

Compl. Specn. 12 pages.



CLASS : 40A1.

159011

Int. Cl. : B01j 9/00 &amp; C01b 21/16.

**"HYDRAZINE HOT GAS PRODUCER".**

Applicant : HUGHES AIRCRAFT COMPANY, a company organized and existing under the laws of the State of Delaware, United States of America, having a principal place of business at Centinela and Teale Street, Culver City, State of California, United States of America.

Inventors : MAX EDMUND ELIION & PHILIP ANTHONY DONATELLI.

Application for Patent No. 106/Del/83 filed on 17th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 4 Claims

A hydrazine hot gas producer comprising :

a hydrazine chamber housing (24) for containing hydrazine dissociation catalyst therein;

an outlet nozzle (26) connected to said chamber for discharging from said chamber the hot gas products of hydrazine exothermic dissociation; and

hydrazine supply means (16) connected to said chamber for supplying hydrazine to be exothermically decomposed in said chamber; characterised in that said producer additionally comprises;

a heat sink (12) connected to said chamber for receiving heat therefrom which is generated by exothermic decomposition of hydrazine within said chamber, so that the catalyst, in the region of the chamber whereat the incoming hydrazine is supplied by said hydrazine supply means, is at a temperature no higher than the saturation temperature for hydrazine at the pressure of said chamber;

said heat sink (12) comprising a metallic heat sink which is clamped into said chamber (24) housing adjacent said supply means (16).

Compl. Specn. 14 pages.

Drgs. 3 sheets.

CLASS : 150 E.

159012

Int. Cl. : F161-13/00, 17/00 &amp; F16b-7/02.

**"A JOINTED PIPE ESPECIALLY OF STEEL AND ALLOY WHICH IS OIL-TIGHT AT HIGH PRESSURE".**

Applicant : VALLOURCE, of 7 Place du Chancelier Adenauer, 75016 Paris, France, a French company.

Inventor : BERNARD PLAQUIN.

Application for Patent No. 110/Del/1983 filed on 22nd February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 6 Claims

A jointed pipe especially of steel or alloy which is oil-tight at high pressure which comprises a pair of interengaging substantially cylindrical threaded male and female pipe members said members having at least one pair of conical sealing surfaces provided at least one end of each of said male and female members which surfaces are adapted to contact each other over their entire area in sealing engagement, the first point of sealing contact located at the end of one member being against the corresponding sealing surface of the other member, the taper of the sealing surface at the end of one of the members being less than

the taper of the sealing surface of the other member and the generatrices of each of said sealing surfaces having angular difference corresponding to a slope of 0.5% to 2%.

Compl. Specn. 14 pages.

Drgs. 6 sheets.

CLASS : 62 C.

Int. Cl. : B 05 c-11/10.

**"PROCESS OR COLORING POLYVINYL RESINS".**

Applicant(s) : FORMULABS INDUSTRIAL INKS, INC., a corporation organised and existing by virtue of the laws of the State of California, and having a regular and established place of business at 529 West Fourth Street, Escondido, in the Country of San Diego, California, U. S. A.

Inventor(s) : DONALD CLAYTON ULRY, CHARLES GEORGE COSNER and THOMAS DENNIS RYAN.

Application for Patent No. 120/Del/1983 filed on 24th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 6 Claims

A process for the coloring of water insoluble, organic solvent resistant, electrical insulator polyvinyl resins and copolymers/graft polymers which process comprises :

(A) contacting a surface area of said polyvinyl resin with a liquid halogenated hydrocarbon solvent having 1-2 carbon atoms where halogen is chlorine, fluorine or both, and a solvent dye as herein described dissolved in said solvent;

(B) for a time sufficient to color said surface area, and

(C) removing in any known manner residual solvent from said surface area.

Compl. Specn. 15 pages.

Drg. 1 sheet.

CLASS : 104 J.

159014

Int. Cl. : A01f 25/00.

**"A PROCESS OF PRESERVING A GUAYULE PLANT MATERIAL".**

Applicant : THE FIRESTONE TYPE & RUBBER COMPANY, of 1200 Firestone Parkway, Akron, State of Ohio 44317, United States of America, Manufacturers, a corporation organized under the laws of the State of Ohio, United States of America.

Inventors : RICHARD GUTIERREZ & EDWARD LEO KAY.

Application for Patent No. 145/Del/83 filed on 8th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 8 Claims

A process of preserving a guayule plant material capable of being stored for a period which, in any order of steps, comprising :

(a) Forming an aqueous slurry of comminuted guayule plant material with water;

(b) Adding at least one inhibitor of odor to the slurry which makes the pH of the system greater than 8.5 or less than 5.0.

Compl. Specn. 18 pages.

CLASS : 172 C.

159015

CLASS : 39 O.

158017

Int. Cl. : DO6c-3/00.

"A DEVICE FOR THE MANUFACTURE OF A STRETCHED TEXTILE STRUCTURE".

Applicant : ASA S.A., of 76, Boulevard du 11 November, 69100 Villeurbanne, France, a French company.

Inventors : RICHARD SCHUTZ, MARC RENNER & MRS. FERNANDE SCHUTZ.

Application for Patent No. 146/Del/1983 filed on 8th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 10 Claims

Device for the manufacture of a stretched textile structure constituted of discontinuous fibres, said structure being either in web form or in top or rove forms, which comprises at least one pair of upper and lower movable elements, between which said textile structure passes in pressurised engagement, said pair of elements engaging said structure over at least a part of their lengths with one element moving at a greater speed than the other;

a pair of feed and discharge rollers on which each movable element is supported and about which said element moves, and means connected to said movable elements for exerting normal forces on the textile structure passing therebetween whereby said structure is subjected to a simple shear with a speed gradient so that the fibres of said structure tend to slide as superimposed elementary layers each layer sliding at a different speed.

Compl. Specn. 15 pages.

Drgs. 7 sheets.

CLASS : 68 E 2.

159016

Int. Cl. : G 05 f-5/00.

"AN ELECTRONIC REGULATOR".

Applicant(s) : DLF UNIVERSAL LIMITED, of 21-22 Narindra Place, Parliament Street, New Delhi-110 001, India, an Indian Company.

Inventor(s) : MADURSRIVASA RAGHVAN VARADARAGAN and KAVI PRASAD ATMA RAM GOEL.

Application for Patent No. 155/Del/1983 filed on 10th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 4 Claims

An electronic regulator for regulating the speed of a load such as a fan, comprising a diac connected to the output of a voltage regulating circuit, said diac being adapted to provide a firing signal to a triac, said voltage regulating circuit including a capacitor connected to said diac and capable of supplying a breakdown voltage to said diac, said regulating circuit further including at least one variable resistor connected in series to said capacitor for regulating the discharge of said capacitor and a suppressor circuit connected across said regulating circuit, a resistance shunt circuit being connected across the said variable resistor for regulating low running speeds of the load.

Compl. Specn. 6 pages.

Drg. 1 sheet.

Int. Cl. : C 01 b-33/12.

"A PROCESS FOR THE MANUFACTURE OF SILICA".

Applicant(s) : PREM DUTTA GROVER, Professor and Head, an Indian national of Department of Chemical Engineering, Indian Institute of Technology, Hauz Khas, New Delhi-110 016, India.

Inventor(s) : PREM DUTTA GROVER.

Application for Patent No. 158/Del/1983 filed on 10th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 4 Claims

A process for the manufacture of reactive silica from agricultural wastes and residues such as paddy or rice husk, which comprises in subjecting the waste to the step of pyrolysis and to the step of gasification characterized in that the said steps of pyrolysis and gasification are carried out simultaneously in the presence of superheated steam.

Provisional Specn. 5 pages.

Compl. Specn. 6 pages.

CLASS : 40 A2 40 B.

159018

Int. Cl. : B O I j-9/00, 11/00.

"A PROCESS FOR PREPARING AN ALKALI METAL—PROMOTED SUPPORTED SILVER CATALYST".

Applicant : THE HALCON SD GROUP, INC., a corporation organized and existing under the laws of the States of Delaware, having its office and principle places of business at 2 Park Avenue, New York, New York 10016, United States of America.

Inventor : ARMSTRONG WILLIAM DAVID.

Application for Patent No. 171/Del/83 filed on 16th March, 1983

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 7 Claims

A process for preparing an alkali metal—promoted supported silver catalyst suitable for the oxidation of ethylene to ethylene oxide comprising :

- impregnating a support with a solution of an organic silver salt : said support comprising alumina, silica, silica-alumina or combinations thereof having a surface area of 0.05—1.5 m<sup>2</sup>/gm and characterized by the ability to selectively absorb an alkali metal from a solution thereof ;
- separating the impregnated support of (a) from said solution and activating in the presence of molecular oxygen at a maximum temperature not exceeding 500°C for a period of time sufficient to produce an active fresh silver catalyst having an average silver particle size of 0.2—1.0 microns ;
- post-impregnating the active catalyst of (b) with a solution of a compound of at least one alkali metal selected from the group consisting of Cs, K, and Rb and producing a finished catalyst containing 10—1000 wt ppm of said alkali metal.

Compl. Specn. 24 pages.

CLASS : 85 C &amp; G.

159019

Int. Cl. : F 27 b-1/00.

## "A FEED DEVICE FOR A SHAFT FURNACE".

Applicant : PAUL WURTH S.A., of 32 rue d'Alsace, Luxembourg, Grand-Duchy of Luxembourg, a company organized under the laws of Luxembourg.

Inventors : PIERRE MAILLIET & LEON ULVELING.

Application for Patent No. 96/Del/1983 filed on 16th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 11 Claims

A feed device for a shaft furnace, comprising a stand-by hopper, a storage enclosure and a vertical feed channel leading to a rotary or oscillating distributing spout mounted in the head of the furnace characterized in that the storage enclosure comprises a lower part in the form of a funnel which is mounted symmetrically around the central axis of the vertical feed channel and positioned directly above this latter, and wherein a tight dosing device of a substantially circular cross section is mounted symmetrically in respect of the said central axis; at the intersection of the lower part of the storage enclosure with said vertical feed channel, and connected to a driving means enabling it to be moved vertically between a closing position, in which the said dosing device is caused to rest against the base of the said enclosure, designed as a seating for the said dosing device, and an opening position in which the said dosing device is raised to greater or smaller distance from its sealing, in order to define a variable annular discharge orifice between the external contour of the said dosing device and the lower inner edge of the funnel-shaped lower part of the enclosure.

Compl. Specn. 11 pages.

Drgs. 4 sheets.

CLASS : 140, B2.

159020

Int. Cl. : A 23d-5/00.

## "METHOD FOR EXTRACTION OF A LIPID FROM A LIPID-CONTAINING MATERIAL".

Applicant : JOHN PHILLIP FRIENDRICH., a citizen of the United States of America, residing at Green Valley, Illinois 61534, United States of America.

Inventor : JOHN PHILLIP FRIENDRICH.

Application for Patent No. 159/Del/83 filed on 10th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 8 Claims

A method for extraction of a lipid from a lipid-containing material by contacting said material with a carbon dioxide solvent under supercritical conditions, and thereafter separating the carbon dioxide solvent with dissolved lipid from the residual material, characterized by carrying out said extraction of said carbon dioxide solvent under a pressure of from 550 bar to 1200 bar and at a temperature of from 60°C to 100°C whereby the solubility of the lipid in the solvent is greatly enhanced.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS : 32 E.

159021

Int. Cl. : C 08 f, 19/08.

## "AN IMPROVED PROCESS FOR THE PREPARATION OF ELASTOMERIC BLOCK COPOLYMERS".

Applicant : NATIONAL RESEARCH DEVELOPMENT CORPN. OF INDIA of 20-22, Zamroodpur Community Centre, Kailash Colony Extension, New Delhi-110 048, India, A Government of India Enterprise.

Inventor : (1) UPENDER KRISHEN SAROOP, (2) SATANAND PURWAR, (3) GEETA UNIKRISHNAN, (4) KRISHAN KUMAR SHARMA.

Application for Patent No. 174/Del/83 filed on 17th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 10 Claims

An improved process for the preparation of linear elastomeric block copolymers which comprises in preparing a solution of styrene, polymerizing the styrene in the presence of a catalyst under a nitrogen atmosphere to obtain active polystyrene block, said catalyst being active polystyrene block to form elastomeric block copolymers, adding a coupling agent, such as herein described, to said elastomeric block to form linear elastomeric block copolymers.

Compl. Specn. 13 pages.

CLASS : 98 I.

159022

Int. Cl. : HO-II-15/02.

## "A METHOD OF FABRICATING A THIN FILM HETEROJUNCTION PHOTOVOLTAIC CELL".

Applicant : SOHIO COMMERCIAL DEVELOPMENT COMPANY, a Delaware corporation, located at Midland Building, Cleveland, Ohio 44115, United States of America and BP Photovoltaics Limited, a British Corporation, located at Moor Lane, London, England.

Inventors : BULENT MEHMET BASOL, ERIC SHENG-FONG TSENG, & ROBERT LOUIS ROD.

Application for Patent No. 179/Del/1983 filed on 18th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 6 Claims

A method of fabricating a thin film heterojunction photovoltaic cell comprising the steps of electrodeposition a film of near intrinsic or n-type semiconductor compound formed of at least one of the metal elements of Class II B of the Periodic Table of Elements and at least tellurium; forming a layer of n-type semiconductor compound different from the near intrinsic or n-type semiconductor compound formed according to the preceding step; and heating said film at a temperature between 250°C and 500°C to convert such film to a suitably low resistivity p-type compound.

Compl. Specn. 17 pages.

Drgs. 2 sheets.

CUASS : 36 A-I

159023

Int. Cl. : HO2k-5/00 &amp; FO4d-17/00, 33/00, 29/40.

**"IMPROVED ELECTRIC TABLE, PEDESTAL OR WALL FAN."**

Applicant : MODERN FAN INDUSTRIES, B-133, Maya Puri, Phase-I, New Delhi-110 064 an Indian Partnership Firm, whose partners are Shri Avtar Singh, Shri Sohan Singh, Shri Baldev Singh, Shri Anoop Singh and Shri Chanan Singh, all of the above stated address and all Indian Nationals.

Inventors : AVAR SINGH, SOHAN SINGH, BALDEV SINGH, ANOOP SINGH & CHANAN SINGH.

Application for Patent No. 180/Del/1983 filed on 19th March, 1983.

Complete specification left on 19th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 8 Claims

An improved electric table fan, pedestal fan or wall fan adapted to give an air flow having a sweep of 180° which consists of a frame having mounted at its centre a first electric motor, the blades of the fan being mounted on the spindle of the electric motor, a circular louver grill consisting of a plurality of spaced slanting vanes, being mounted in the front face of the frame and in front of the blades of the fan, the louver grill being adapted to be revolved by a second electric motor fixed on the frame, both the electric motors being adapted to be connected to the electric mains for the supply of the electric current.

Provisional Specn. 2 pages.

Compl. Specn. 8 pages.

CLASS : 133 A.

159024

Int. Cl. : H 02 p-7/00.

**"ELEVATOR SYSTEM".**

Applicant(s) : OLIS ELEVATOR COMPANY, a corporation organised and existing under the laws of the State of New Jersey, United States of America of Ten Farm Springs, Farmington, Connecticut 06032, United States of America.

Inventor(s) : JALAL TAWFIQ SALIHI and JAMES JOSEPH DUCKWORTH.

Application for Patent No. 212/Del/1983 filed on 31st March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 10 Claims

An elevator system comprising :

a polyphase electric motor, said motor having N phases and corresponding windings, N being at least two, a D.C. power supply;

an inverter connected to the D. C. power supply, for providing current or voltage to each stator winding in the motor, said inverter having said input for each stator winding in the motor, said inverter having an input for each winding and a corresponding output connected to a motor input;

a position encoder connected to the motor for providing a signal (TACH) that identifies the motor shaft position;

an elevator car that is propelled by the motor;

an elevator control system for controlling the operation of the inverter to produce alternating N phase current or voltage for said stator windings to control motor speed (R. P. M.) slip and direction;

the elevator system being characterised in that said control system comprises;

first means connected to said position encoder for providing a signal (AMPLITUDE) in response to the TACH signal to control motor speed (R.P.M.);

second means connected to the position encoder for providing a signal (SLIP) in response to the TACH signal to control the difference between the motor R.P.M. and the frequency (F SYNCH) of the alternating current or voltage that is supplied to the motor by the inverter;

third means connected to the second means and to the position encoder for providing a first signal that repeats at F SYNCH, said signal identifying an angular position on a sine curve, and for providing N second signals each representing the Y-coordinate on said sine curve at different angular position thereon, said positions being equally spaced apart by 360/N degrees, said N second signals being provided in a successive sequence during each motor rotation, the sequence in one motor direction being the reverse of the sequence in the opposite direction, the first and second signals being provided in response to the SLIP signal and TACH signal;

fourth means connected to the third means for providing an inverter drive signal from each second signal as it is produced, and fifth means connected to the fourth means and to the inverter for applying each inverter drive signal to the correct one of the inverter inputs according to successive sequence in response to one of N control signals;

sixth means connected to the position encoder for generating N signals in repeated succession during each motor rotation, each identifying an inverter input, to provide the N control signals.

Compl. Specn. 24 pages.

Drgs. 2 sheets.

CLASS : 13 A &amp; 13 D and 60 D.

159025

Int. Cl. : A 41 d-13/00.

**"A METHOD FOR THE MANUFACTURE OF A HEATING BAG."**

Applicant(s) : CHIEF CONTROLLER, RESEARCH & DEVELOPMENT, Ministry of Defence, New Delhi, India, an Indian National.

Inventor(s) : PALLE RAMA RAO, TRILOK SINGH & BEVARA VENKATESWARA RAO.

Application for Patent No. 324/Del/1983 filed on 17th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 6 Claims

A method for the manufacture of heating bag which comprises in preparing a first mixture of binder coated metal powders as herein described and a filler as herein described adding a metal compound such as ferrous chloride, sodium chloride, copper chloride or copper sulphate to said mixture in a bag and mixing the same thoroughly.

Compl. Specn. 6 pages.

CLASS : 70 C<sub>a</sub> 206 E.

159026

Int. Cl. : G05d-1/00, C13d-3/18.

"AN ELECTRONIC PROCESS CONTROL DEVICE FOR USE AS DIGITAL DUAL SET POINT CONTROLLERS".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : MARRIPUDI VENKATA SUBHA RAO AND SUBHASH CHANDRA MITTAL.

Application for Patent No. 347/Del/1983 filed on 24th May, 1983.

Complete Specification left on 18th March 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 2 Claims

An electronic process control device for use as digital dual set point controller comprises two pairs of digital comparator modules (3, 4) & (9, 10) one of the inputs of said modules connected to sensor/transducer of any process parameter (P), the other inputs connected to set high limit switches (1) & (7) and to set low limit switches (2) & (8), their outputs connected to control logic units (5) & (11) the output of unit (5) is connected to a valve (6) for its actuation thereof and the output of the unit (11) is connected to a control panel (12) & (13) for audio visual alarm indication.

Provisional Specn. 5 pages.

Drg. 1 sheet.

Compl. Specn. 7 pages.

CLASS : 180.

159027

Int. Cl. : F 24 b-5/00, 13/00.

"A COOK STOVE".

Applicant(s) : MAHENDER PARKASH MURGAI and LALIT KUMAR DAS. both Indian Nationals of Indian Institute of Technology, Delhi, Hauz Khas, New Delhi-110 016, India and Indian Institute and the said INDIAN INSTITUTE OF TECHNOLOGY.

Inventor(s) : MAHINDER PARKASH MURGAI and LALIT KUMAR DAS.

Application for Patent No. 366/Del/1983 filed on 01 Jun 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 8 Claims

A cook stove operable on fuels containing volatiles such as wood or coal comprising a chamber having at least a first and second compartment, said first and second compartment having each an opening on the upper wall for

supporting a cooking vessel characterized in that said first and second compartments being in flow communication with each other, an exhaust opening provided in flow communication with said second compartment so as to allow a suction of the flue gases from the first to the second compartment, a grate provided in said first compartment for supply of primary air in said compartment, a secondary air inlet provided in said first compartment for supply of secondary air to said first compartment.

Compl. Specn. 10 pages.

Drg. 1 sheet.

CLASS : 39 B.

159028

Int. Cl. : CO1d-1/04.

"A PROCESS FOR RECOVERY OF SODIUM HYDROXIDE FROM SPENT LIQUOR".

Applicant : THE DIRECTOR, CENTRAL PULP AND PAPER RESEARCH INSTITUTE, VASANT VIHAR, DEHRA DUN, India, an Indian National.

Inventors : ARVIND GOPAL KULKARNI, RAJIV MOHAN MATHUR AND RAJESH PANT.

Application for Patent No. 484/Del/1983 filed on 16th July, 1983.

Complete specification left on 15th October, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 5 Claims

A process for recovery of sodium hydroxide from the spent liquor obtained from mini paper mill which comprises in partially concentrating the spent liquor from the digester to at least 25% and lower than 55% solid content, adding a causticizing agent such as ferric oxide thereto to increase the solid content of said liquor further, subjecting the mixture of liquor and ferric oxide to the step of combustion to produce sodium ferrite, hydrolysing by the step of leaching the sodium ferrite with water to obtain precipitated ferric oxide and sodium hydroxide, and removing ferric oxide therefrom.

Provisional Specn. 4 pages.

Compl. Specn. 15 pages.

Drg. 1 sheet.

CLASS : 32 E.

159029

Int. Cl. : CO8f-27/00.

"A PROCESS FOR THE PREPARATION OF SODIUM SALT OF  $\beta$  NAPHTHALENE SULPHONIC ACID POLYMER".

Applicant : OIL & NATURAL GAS COMMISSION, Institute of Drilling Technology, Department of Casing, Cementation & Cementing Materials, Kaulagarh Road, Dehra Dun, India, an Indian Company.

Inventors : BANSH NARAIN YADAV, JATINDER PETERS & KRIHAN KUMAR ARORA.

Application for Patent No. 499/Del/1983 filed on 23rd July, 1983.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 4 Claims

A process for the preparation of sodium salt of  $\beta$  naphthalene sulphonic acid polymer having 300 to 3000 molecular weight for use as turbulence inducer in cement slurry which comprises in charging a reaction vessel with reactants consisting of naphthalene, sulphuric acid, formaldehyde and water and subjecting it to the step of sulphonation and condensation to obtain  $\beta$  naphthalene sulphonic acid (a polymer) having a molecular weight of 300 to 3000, said step of sulphonation and condensation consisting in initially heating the reactants to a temperature of 140 to 180°C and thereafter, to a temperature of 60 to 120°C, adding lime or limestone to said condensation product to obtain a calcium salt and insoluble salts, removing by any known method the insoluble salts by the step of precipitation, adding sodium carbonate to the calcium salt to obtain a sodium salt and calcium, removing calcium by the step of precipitation.

Compl. Specn. 7 pages.

## OPPOSITION PROCEEDINGS

(1)

An opposition has been entered by M/s. Hindustan Lever Limited, Bombay to the grant of a patent on application for Patent No. 158190 made by M/s. Godrej Soaps Private Limited, Bombay.

(2)

An opposition has been entered into by M/s. Hindustan Lever Ltd., Bombay to the grant of a patent on application for Patent No. 158206 made by M/s. Godrej Soaps Private Limited, Bombay.

## PATENTS SEALED

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156693	156701	156737	156741	156915	156951	156957
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## RENEWAL FEES PAID

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## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157384. Stamicarbon B. V., a Dutch Company, Mijaweg 1, 6167 AC Geleen, The Netherlands. "A cyclone for grading or separating particles". August 27, 1986.

Class 1. No. 157410. Unident India, 77/5621, Regharpura, Karolbagh, New Delhi-110 005, India. Partnership Firm. "Centrifugal Casting Machine". September 3, 1986.

Class 1. No. 157437. Navbharat Enterprises. 32/36, Rear Jairajghat Lane, Bombay-400 008, Maharashtra, India. Indian Partnership Firm. "Door Latch". September 8, 1986.

Class 1. No. 157475. Anjali Products. Partnership Firm. 170, Bombay Talkies Compound, Malad (West), Bombay-400 064, Maharashtra, India. "A Kitchen Machine for making sev or papdi-snacks (Sev machine)". September 19, 1986.

Class 1. No. 157350. Special Machines. Bye-Pass, Kunj-pura Crossing, Karnal-132 001, Haryana, India. A proprietary firm. "Pulley Box". August 19, 1986.

Class 1. No. 157354. Special Machines. Bye-Pass, Kunj-pura Crossing, Karnal-132 001, Haryana, India. A proprietary firm. "Nozzel Cup". August 19, 1986.

Class 3. No. 157447. Modern Home Care Products Pvt. Ltd., 4, Community Centre, New Friends Colony, New Delhi-110 065, India. Indian Company. "Container for Deodorant". September 12, 1986.

Class 3. Nos. 157565 & 157566. K-Plast. Partnership Firm. Unit No. 27, Building No. 6, Mittal Estate, Andheri Kurla Road, Andheri (East), Bombay-400 059, Maharashtra, India. "Tray". October 22, 1986.

Class 4. No. 157359. Apar Private Limited, Indian Company. Opp : D1 Cabin, Chhani Road, Baroda-390 002, Gujarat, India. "Bulb for electric Lamp". September 9, 1986.

Class 4. No. 157438. Apar Private Limited. Indian Company. Opp : 'D' Cabin, Chhani Road, Baroda-390 002, Gujarat, India. "Bulb for electric Lamp". September 9, 1986.

Class 5. No. 157312. GTC Industries Limited, (a Company incorporated under the provisions of Indian Companies Act) at Tobacco House, Vile Parle, Bombay-400 056, State of Maharashtra, India. "Cigarette Packet". 4th August, 1986.

Class 12. Nos. 157411, 157412. Asoka Biscuit Works of 2-3-745/2, Amberpet, Hyderabad, Andhra Pradesh State, India, a Partnership firm. "Biscuits". 3rd September, 1986.

R. A. ACHARYA

Controller General of Patents, Designs  
and Trade Marks.

